

Application No. 10/538,763 Confirmation No. 5550
Applicant: Steven D. SLONAKER Attorney Docket No. P27955
Title: METHOD AND SYSTEM FOR RECONSTRUCTING ABERRATED
IMAGE PROFILES THROUGH SIMULATION
Responsive to Official Communication dated: June 24, 2008
REPLACEMENT SHEET

fig 1a aerial image intensity vs. horizontal position
grouped by defocus level
pattern 1
aerial image intensity vs. horizontal position and focus
no aberration case

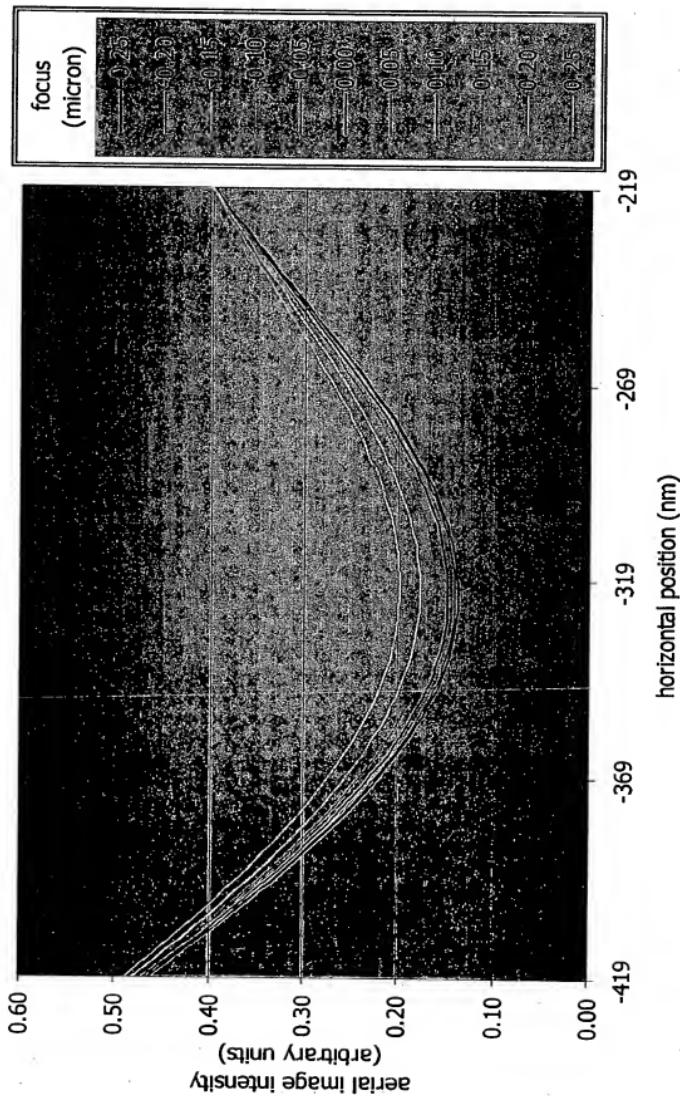


fig 1b
aerial image intensity vs. focus
grouped by horizontal pixel position

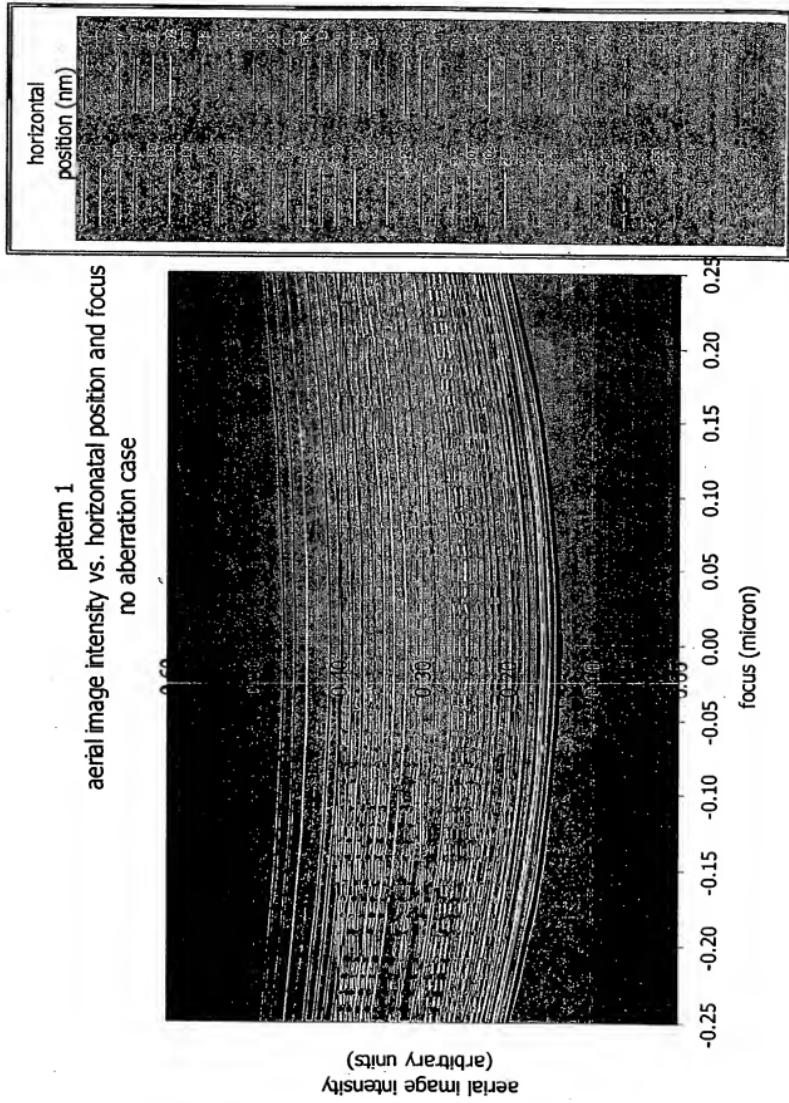
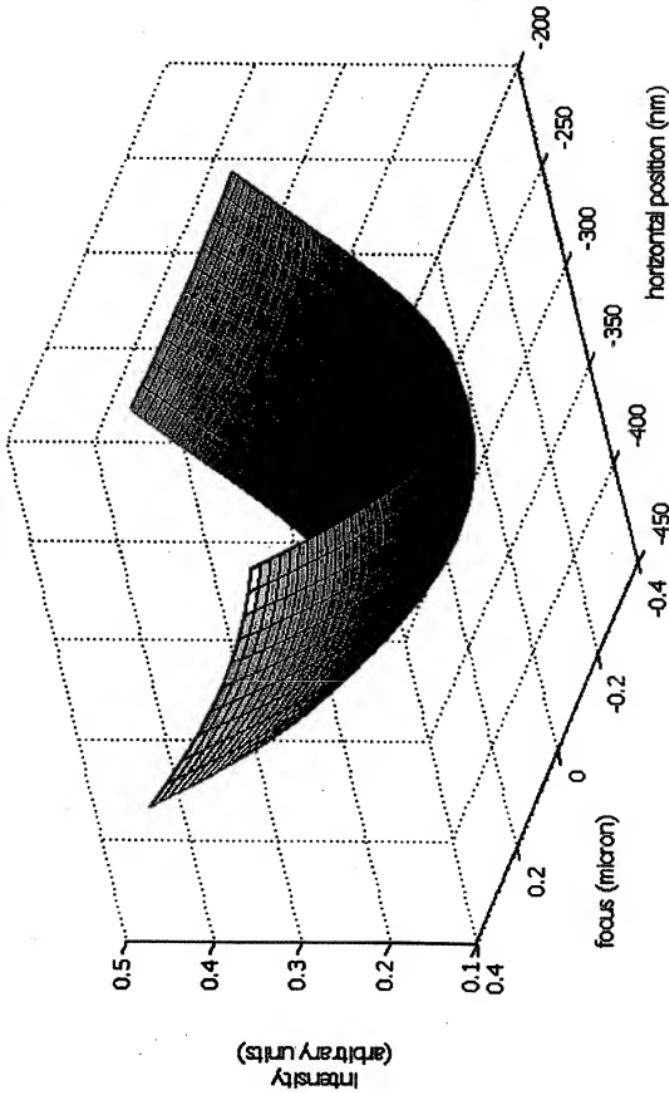


fig 2 aerial image intensity vs. horizontal position and focus

surface plot
pattern
aerial Image Intensity vs. horizontal position and focus
no aberration case



Zernike 2 -0.025 waves rms

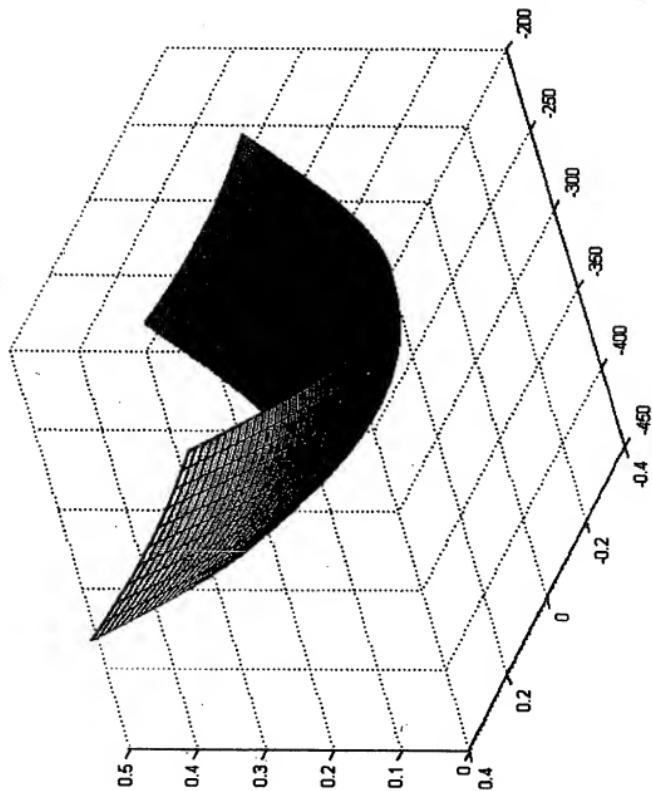


fig 3a

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Zernike 2 -0.020 waves rms

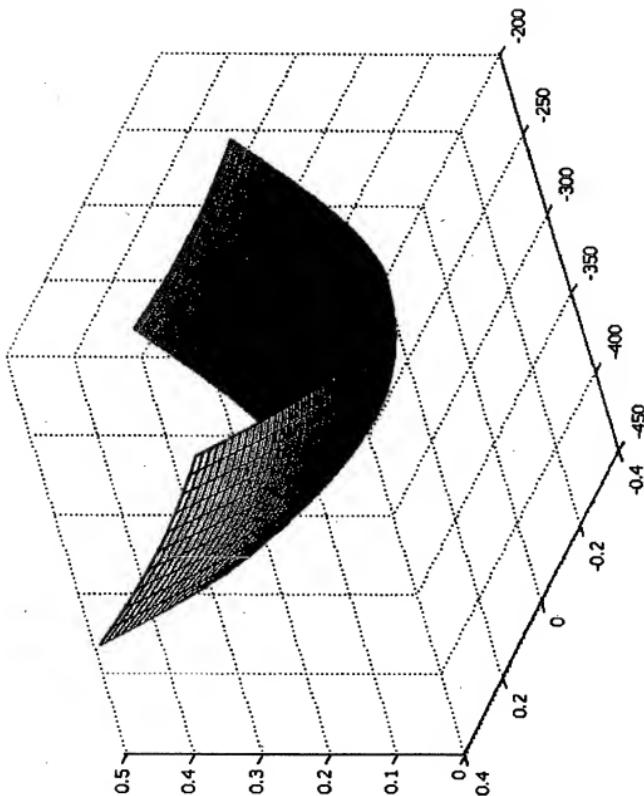


fig 3b

Zernike 2 -0.015 waves rms

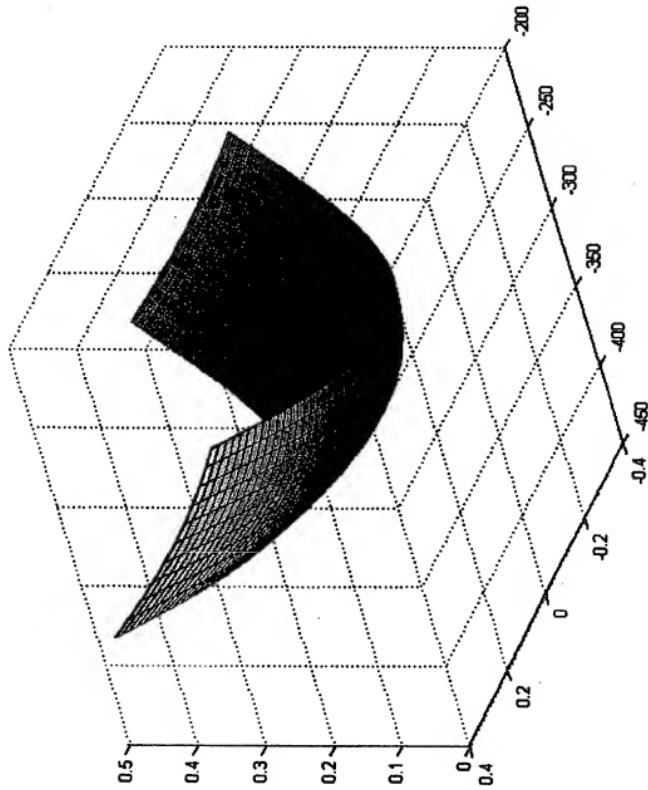


fig 3c

Application No. 10/538,763 Confirmation No. 5550;
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Zernike 2 -0.010 waves rms

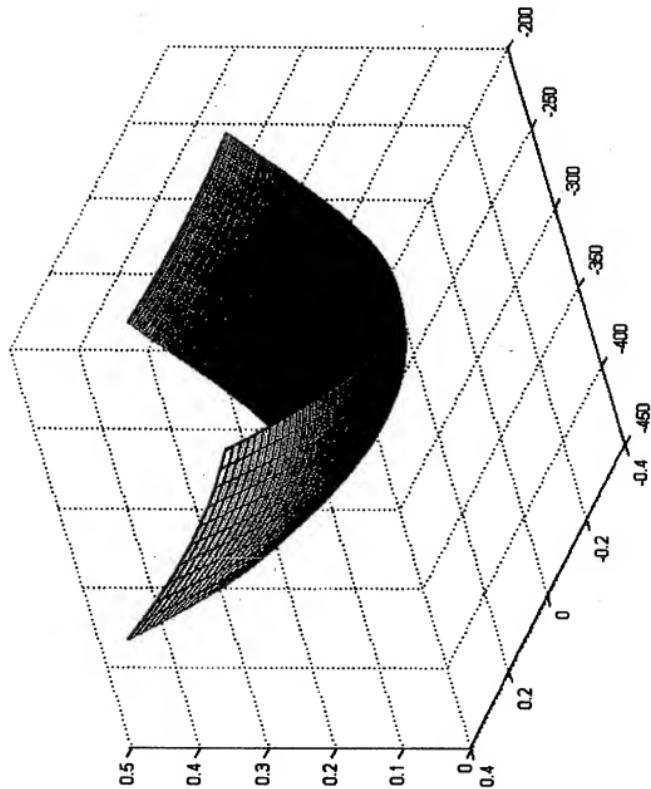


fig 3d

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Zernike 2 -0.005 waves rms

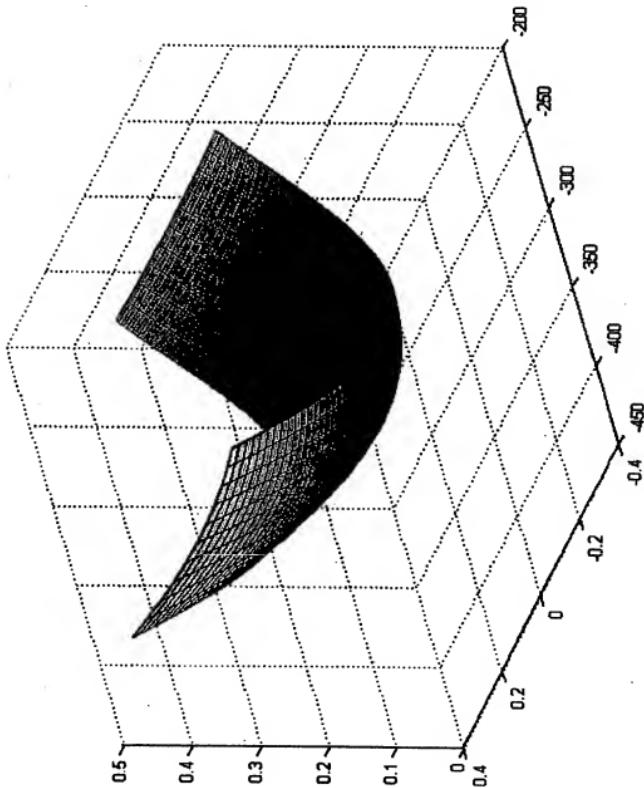


fig 3e

Zernike 2 0 waves rms (=no aberration case)

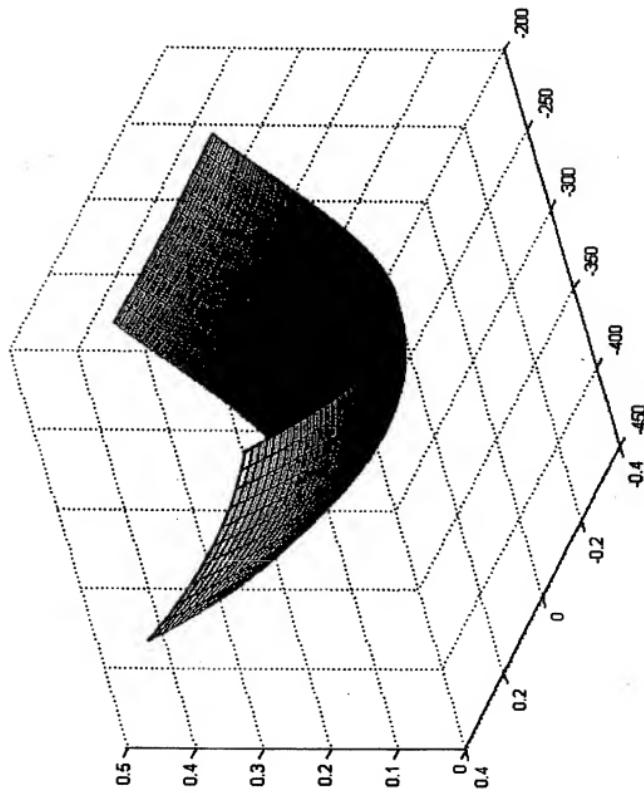


fig 3f

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Zernike 2 +0.005 waves rms

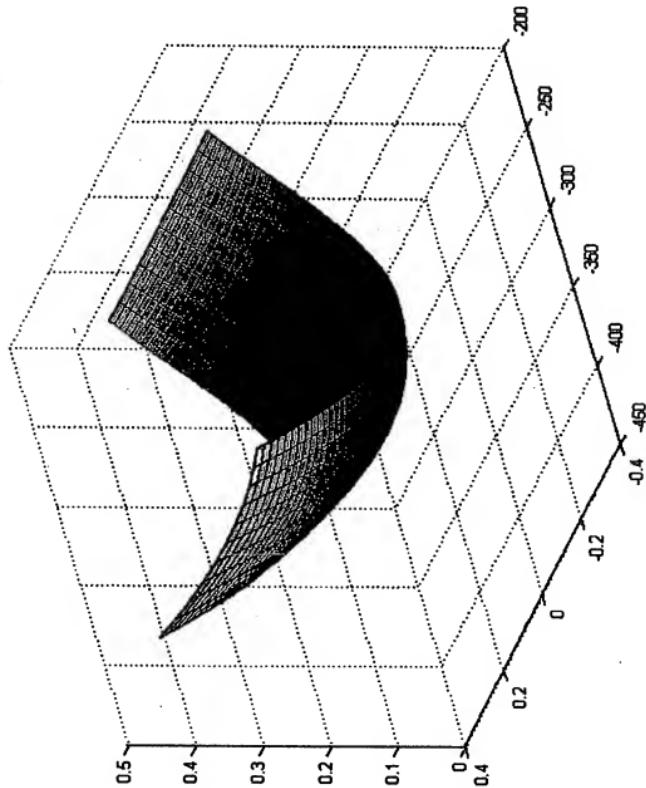


fig 3g

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Zernike 2 +0.010 waves rms

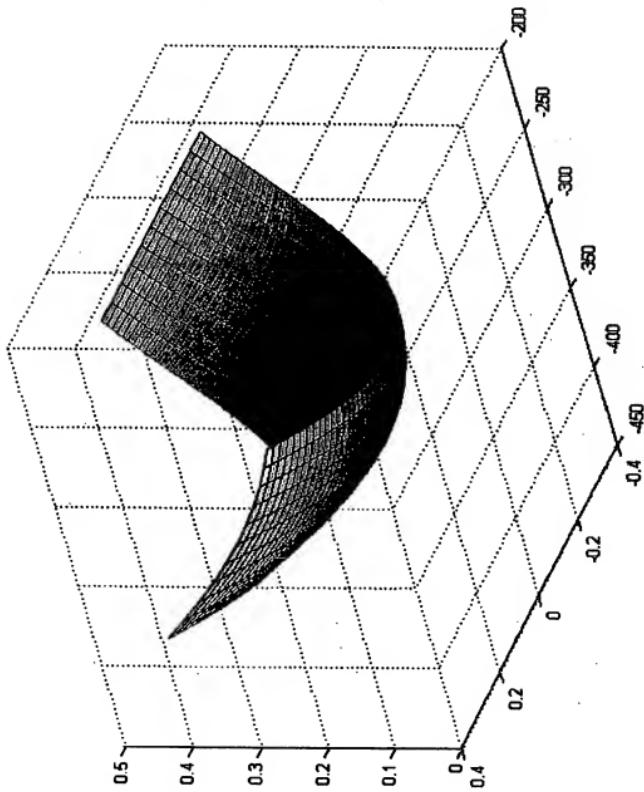


fig 3h

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Zernike 2 +0.015 waves rms

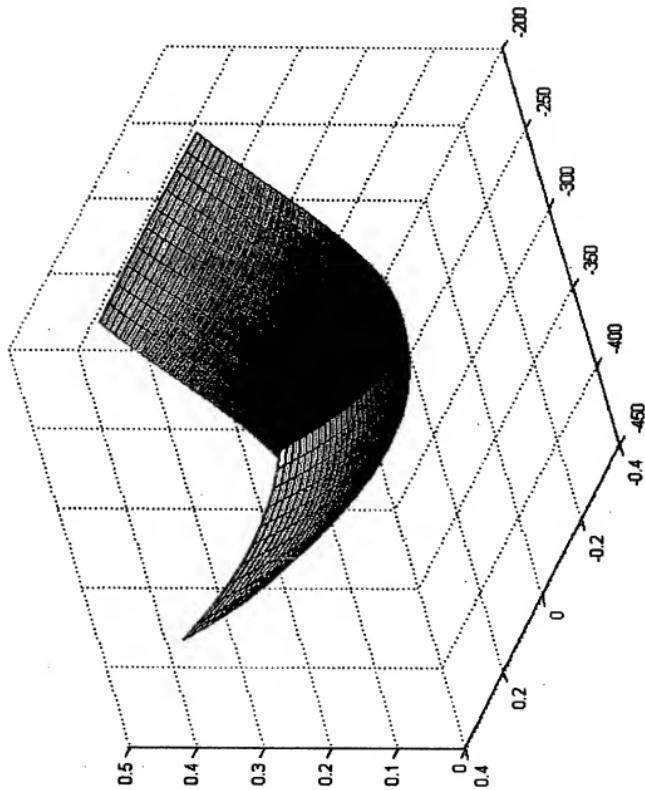


fig 3i

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Zernike 2 +0.020 waves rms

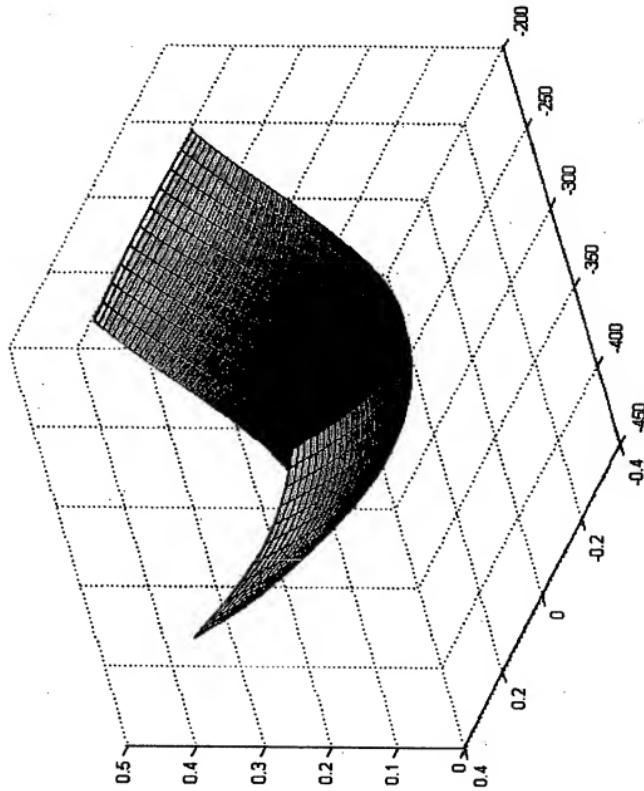


fig 3j

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Zernike 2 +0.025 waves rms

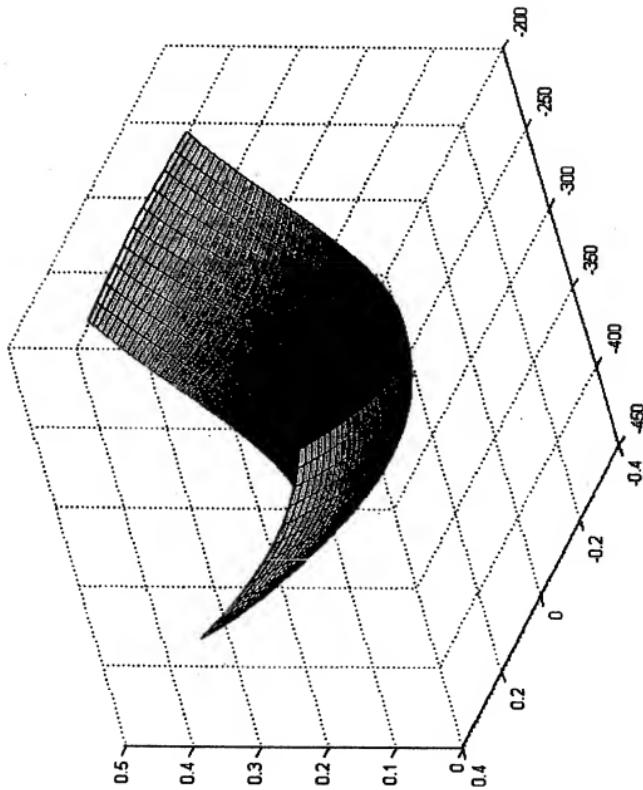


fig 3k

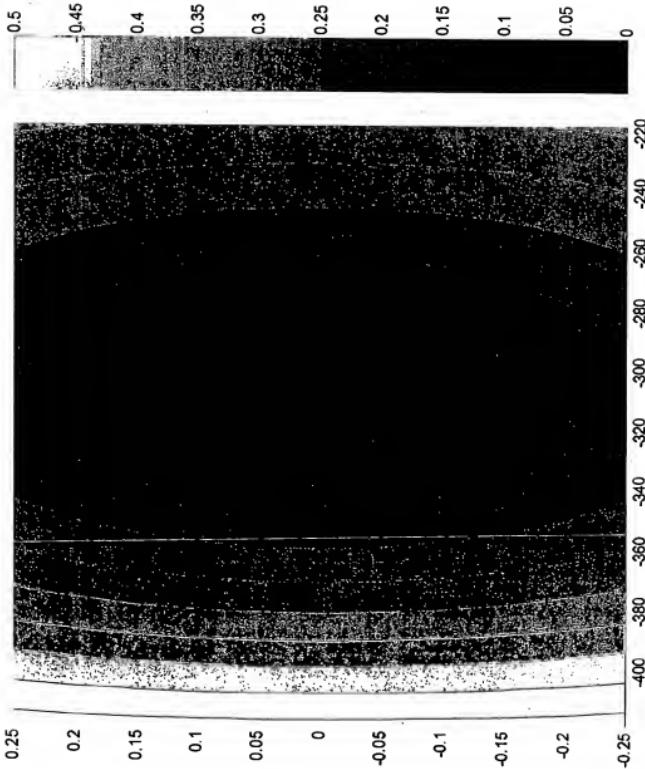


fig 4a

Zernike 2 -0.025 waves rms

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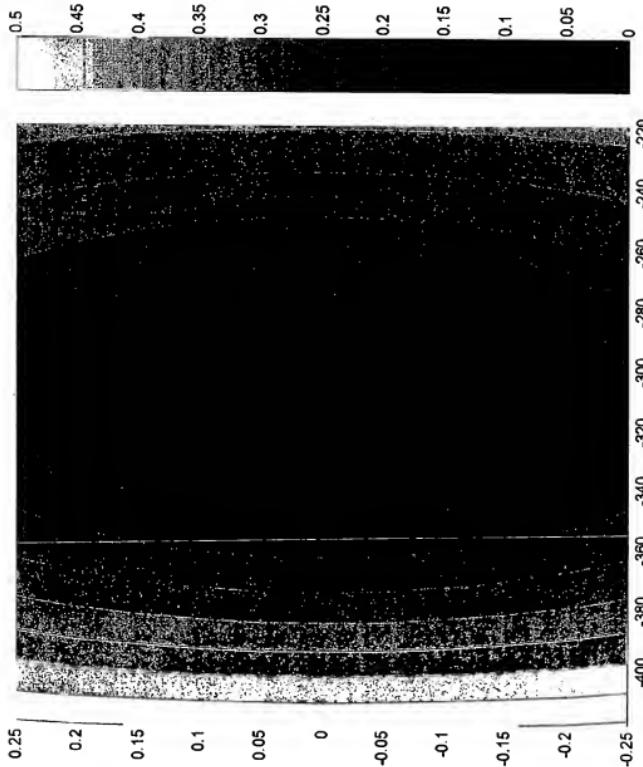


fig 4b

Zernike 2 -0.020 waves rms

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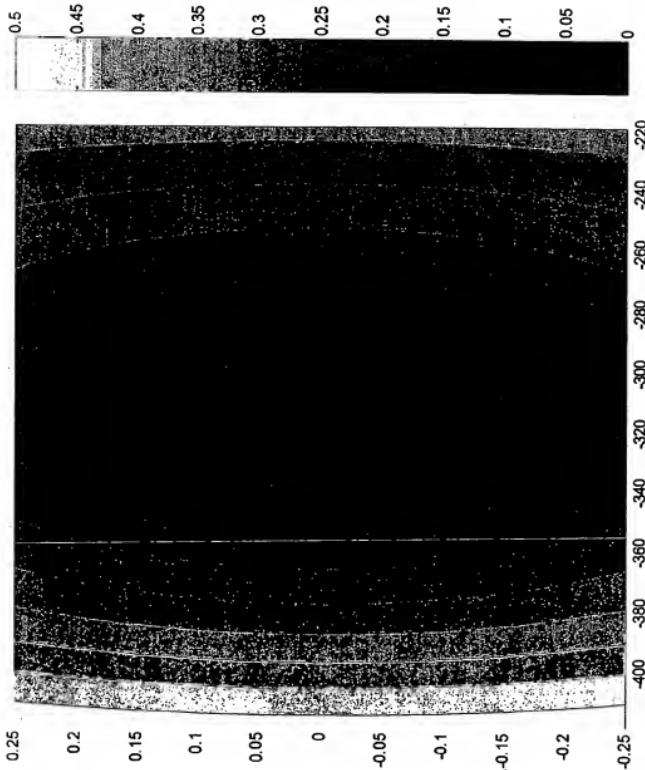


fig 4c

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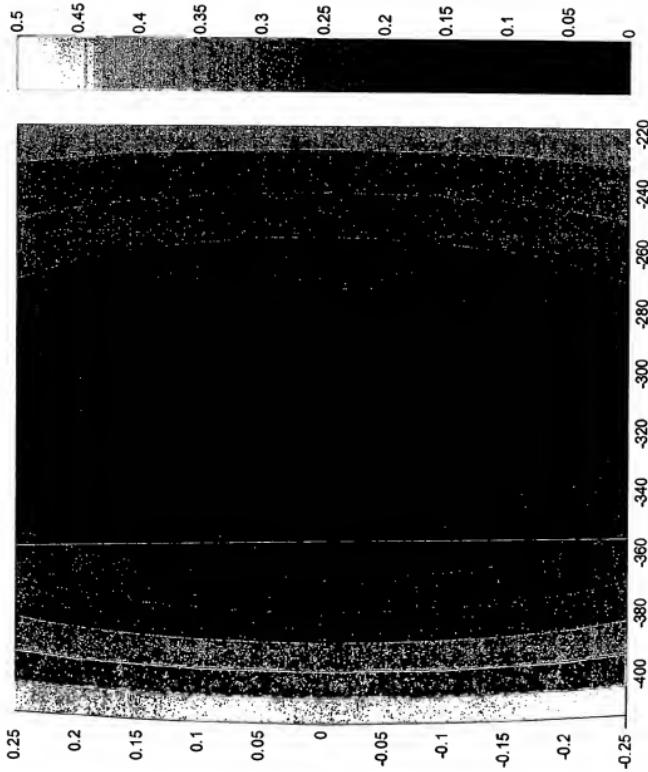


fig 4d

Zernike 2 -0.010 waves rms

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Zernike 2 -0.005 waves rms

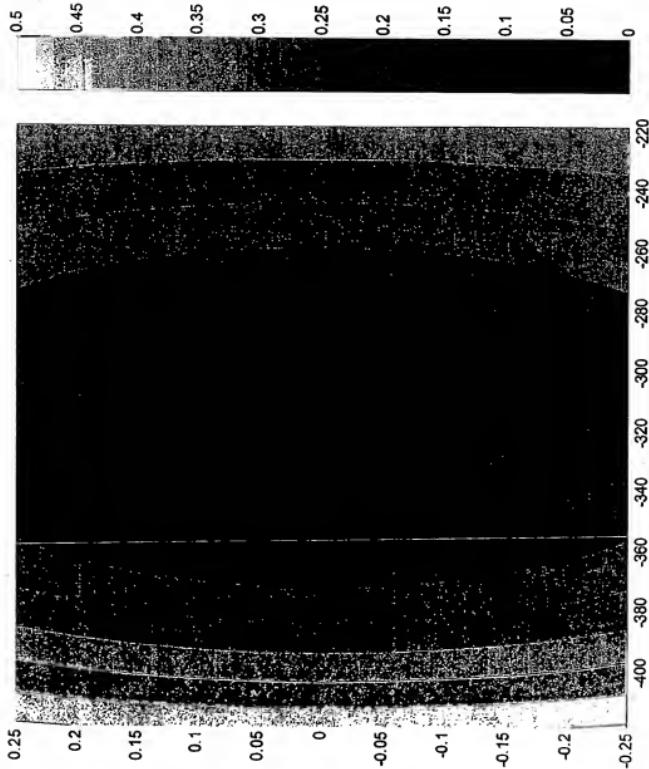


fig 4e

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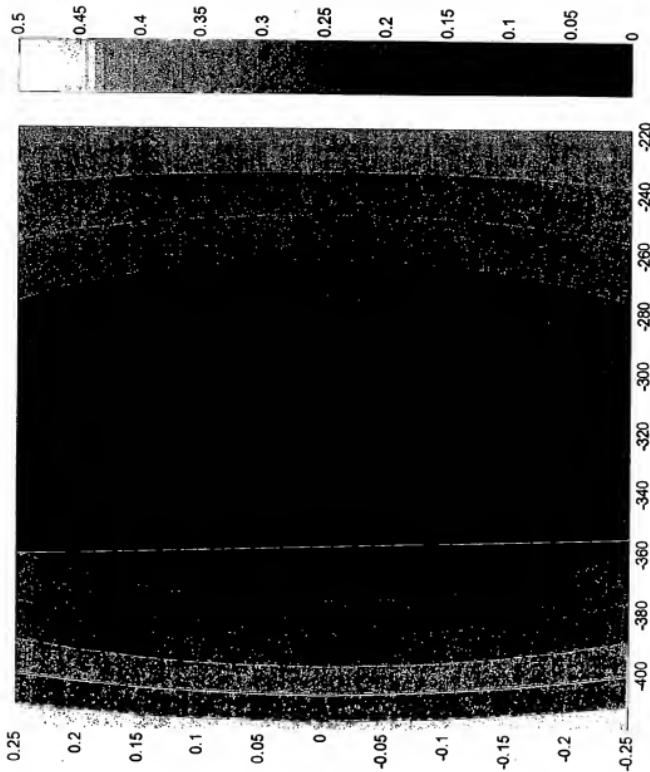


fig 4f

Zernike 2 0.0 waves rms =no aberration case

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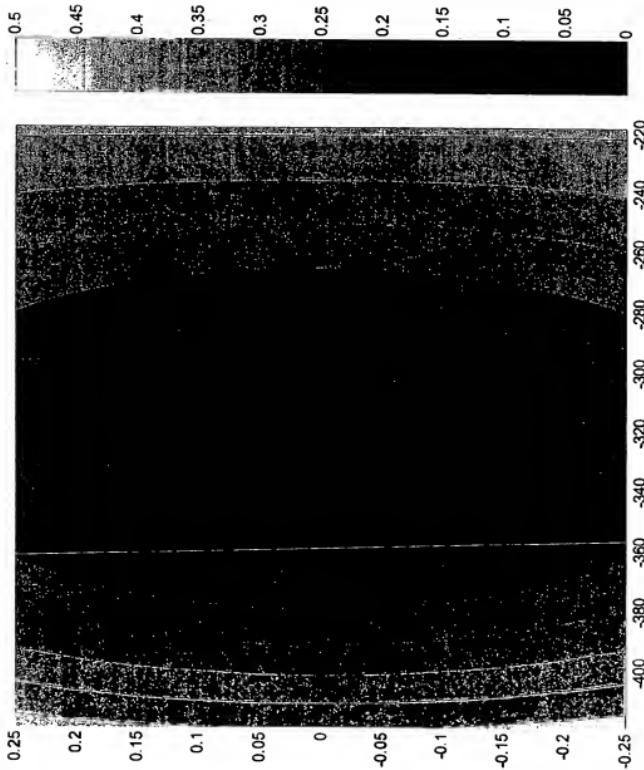
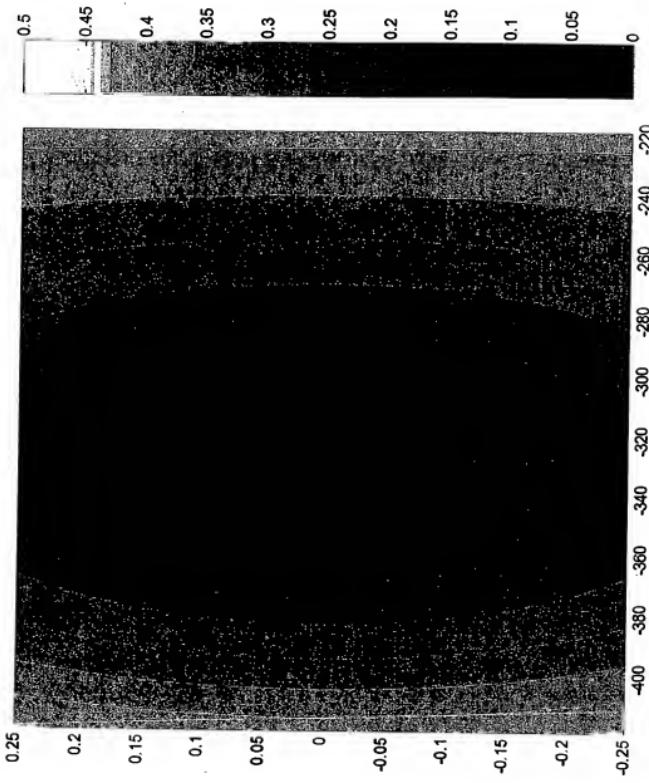


fig 4g

Zernike 2 +0.005 waves rms

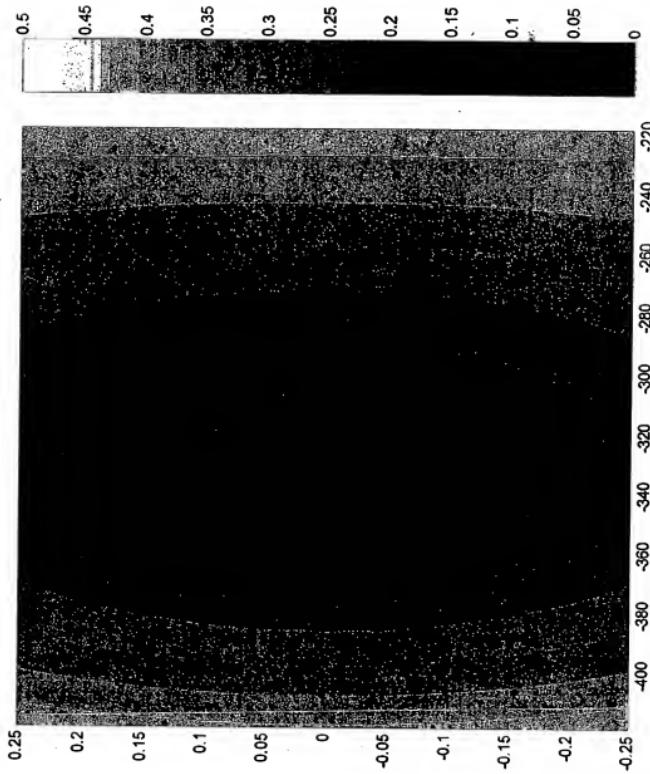
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Zernike 2 +0.010 waves rms

fig 4h

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Zernike 2 +0.015 waves rms

fig 4i

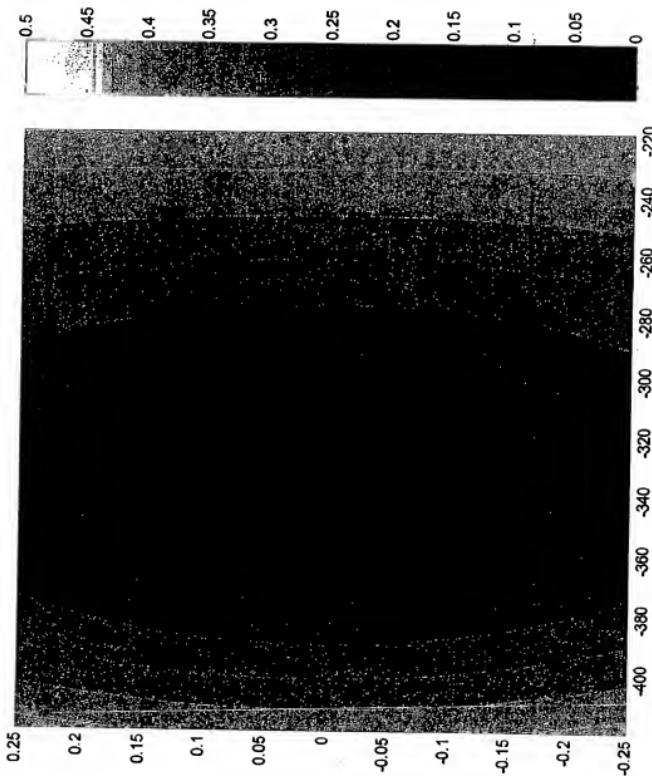


fig 4j

Zernike 2 +0.020 waves rms

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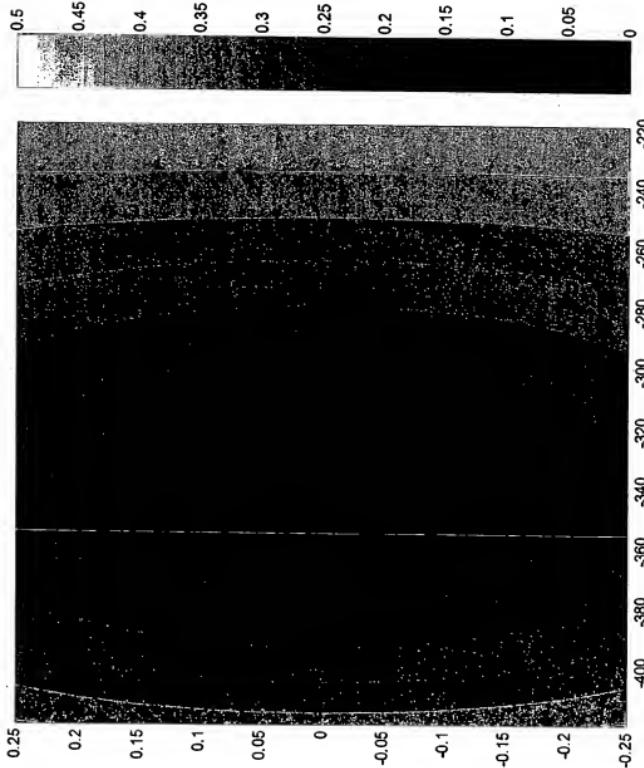


fig 4k

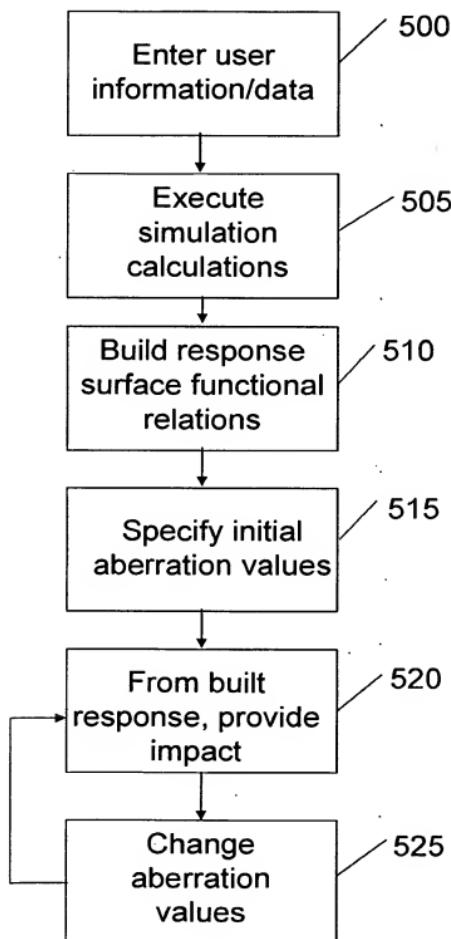


Figure 5